

AMENDMENTS TO THE CLAIMS:

Please amend claims 1, 3, 34, 37 and 38 and add new claims 41 and 42 as follows:

1. (Currently Amended) A graft for biomedical use, the graft comprising flow tubing which is for use in vivo to carry blood and which is made of biocompatible material, the flow tubing having a tubing portion with an internal diameter and defining a flow lumen, ~~the flow tubing being flexible~~, the flow lumen of said tubing portion having a centre line and being substantially free of ribs or grooves, wherein the graft is set such that the centre line of the flow lumen follows a substantially helical path about a longitudinal axis so as to define a helical centre line, the helical centre line having a helix angle and a helix amplitude, the helix angle being less than or equal to 45°, and the helix amplitude being less than or equal to one half of the internal diameter of the tubing portion, and wherein the flow tubing is flexible and is capable of adopting a configuration in which the longitudinal axis is curved and the helical centre line of the tubing portion follows a substantially helical path about the curved longitudinal axis.

2. (Original) A graft as claimed in claim 1, wherein the amplitude of the helical centre line divided by the internal diameter of the tubing is at least 0.05.

3. (Currently Amended) A graft for biomedical use, the graft comprising flow tubing which is for use in vivo to carry blood and which is made of biocompatible material, the flow tubing having a tubing portion with an internal diameter and a centre line and defining a flow lumen, ~~the flow tubing being flexible~~, wherein the graft is set such that the centre line of the flow lumen follows a substantially helical path about a longitudinal axis so as to define a helical centre line, the helical centre line having a helix angle and a helix amplitude, the helix angle being less than or equal to 45°, the helix amplitude being less than or equal to one half of the internal diameter of the tubing portion, and the amplitude of the helical centre line divided by the internal diameter of the

tubing portion is at least 0.05, and wherein the flow tubing is flexible and is capable of adopting a configuration in which the longitudinal axis is curved and the helical centre line of the tubing portion follows a substantially helical path about the curved longitudinal axis.

4-7. (Cancelled)

8. (Previously Presented) A graft as claimed in claim 1, wherein the helix angle is less than or equal to 15° .

9. (Previously Presented) A graft as claimed in claim 1, wherein the flow lumen of the tubing portion is of substantially circular cross-section.

10-11. (Cancelled)

12. (Previously Presented) A graft as claimed in claim 1, wherein the centre line of the tubing portion follows a substantially helical path about an axis which is curved.

13. (Previously Presented) A graft as claimed in claim 1, further comprising a pharmaceutical coating.

14-27. (Cancelled)

28. (Previously Presented) A graft as claimed in claim 3 wherein the helix angle is less than or equal to 15° .

29. (Previously Presented) A graft as claimed in claim 3 wherein the flow lumen of the tubing portion is substantially circular in cross-section.

30. (Previously Presented) A graft as claimed in claim 3 wherein the centre line of the tubing portion follows a substantially helical path about an axis which is curved.

31. (Previously Presented) A graft as claimed in claim 3 further comprising a pharmaceutical coating.

32. (Previously Presented) A graft as claimed in claim 1 wherein the tubing portion comprises a tubular wall which resists reduction of the amplitude of the helical centre line.

33. (Previously Presented) A graft as claimed in claim 3 wherein the tubing portion comprises a tubular wall which resists reduction of the amplitude of the helical centre line.

34. (Currently Amended) A graft as claimed in claim 1, wherein the graft is thermally shape set.

35. (Previously Presented) A graft as claimed in claim 1, wherein the tubing portion has a wall comprising a helical winding to help maintain a circular cross-section of the flow lumen.

36. (Previously Presented) A graft as claimed in claim 35, wherein the helix angle of the helical winding is larger than the helix angle of the helical centre line of the flow lumen.

37. (Currently Amended) A graft for in vivo use comprising a flow tubing to carry blood and which tubing is made of biocompatible material, the flow tubing being flexible and including a tubing portion with an internal diameter and defining a flow lumen, the flow lumen of said tubing portion including a center line having a helix angle and a helix amplitude, said tubing portion being substantially free of ribs or grooves, wherein the graft is shape set such that

the centerline of the flow lumen follows a substantially helical path with the helix angle being less than or equal to 35° 45° , and

the amplitude of the helix is less than or equal to one half of the internal diameter of the tubing portion.

38. (Currently Amended) A graft as claimed in claim 37, wherein the graft is thermally shape set.

39. (Previously Presented) A graft is claimed in claim 37, wherein the tubing portion has a wall comprising a helical winding to help maintain a circular cross-section of the flow lumen.

40. (Previously Presented) A graft as claimed in claim 39, wherein the helix angle of the helical winding is larger than the helix angle of the helical center line of the flow lumen.

41. (New) A graft as claimed in claim 1 comprising ePTFE.

42. (New) A graft as claimed in claim 37 comprising ePTFE.